

ABSTRACT OF THE DISCLOSURE

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3 A low profile, vehicle mounted, in-motion tracking, satellite
4 antenna includes a pair of antenna assemblies mounted in parallel
5 on a rotatable platform. Each antenna assembly includes two
6 subreflectors with a plastic matching element. The outputs of the
7 two antenna assemblies are coupled with a single phase shifter.
8 The combined outputs are retransmitted to a receiver inside the
9 vehicle. The satellite antenna also includes a receiver for
10 receiving channel selection data and/or for providing two-way
11 communication with equipment inside the vehicle. The antennae,
12 transmitter and receiver are self-powered by a storage device
13 which is charged by a wind driven generator. A retractable radome
14 lowers to a lower profile when the antenna is not in use.